EMPLOYMENT ONTARIO

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Sprinkler and Fire Protection Installer Apprenticeship Program

A **sprinkler and fire protection installer** is a person who plans, lays out, assembles, installs, tests, and maintains high- and low-pressure piping systems for supplying water, air, foam, carbon dioxide, or other materials for the protection of people and buildings or other structures in the event of a fire.

Sprinkler and fire protection installer is a **voluntary certified** trade regulated by the Trades Qualification and Apprenticeship Act. On successfully completing the apprenticeship program and passing a trade examination, a person working in this trade is entitled to a Certificate of Apprenticeship and a Certificate of Qualification.

Entrance requirements
Grade 10 or equivalent

Program duration
About four years or as determined by industry guidelines

Work description
A sprinkler and fire protection installer is a person who:

- plans, lays out, assembles, installs, tests, and maintains high- and low-pressure systems to supply water, air, foam, carbon dioxide, or other materials that extinguish fires
- measures, cuts, reams, threads, solders, bolts, welds, joins, or screws piping, fittings, or equipment into place in the fire protection system
- installs clamps, brackets, and hangers to support piping, fittings, and equipment
- tests, adjusts, and maintains piping and other equipment used in piping systems

ON-THE-JOB TRAINING

At the time of registration, an apprentice receives an **Apprenticeship Training Standard**, which outlines the skills training objectives or competencies to be learned on the job. These competencies equip an apprentice to work in the trade as a certified skilled worker or "journeyperson". The employer or sponsor or trainer of the apprentice signs the relevant section of the training standard to indicate the apprentice's progress in meeting individual training objectives. This signature demonstrates that an apprentice has learned the skills established by industry that are essential for being a skilled worker.

IN-SCHOOL TRAINING

Sprinkler and fire protection installer apprentices require three levels of theoretical training. Depending on availability at the chosen delivery agency, the apprentice completes each level of this training through an 8-week, full-time block release from the on-the-job portion of the apprenticeship.

At the time of registration, the training consultant discusses the schooling options with the apprentice to determine the most suitable arrangements for the apprentice and the sponsor/employer.

In-school training for sprinkler and fire protection installer apprentices includes instruction in:

- applied safety procedures
- fabrication and listing
- installation and removal of the following sprinkler systems: antifreeze, wet and dry, dry and preaction, and preaction and deluge
- preparation for and installation of underground water supplies
- installation, flushing, and testing underground water supply pipe and related components
- installation of alarm devices, including contact with appropriate authorities
- inspection, testing, servicing, and maintenance of fire protection systems, including portable extinguishers
- installation and completion of standard wet and dry fire protection systems, including standpipe and hose systems
- trade communications, drawings, and hydraulic calculations

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Ontario

APPRENTICESHIP FACT SHEET

Apprenticeship – What is it and how does it work?

Apprenticeship is a hands-on training program for people who want to work in skilled trades or occupations. About 90% of apprenticeship involves on-the-job training by sponsors of training or employers. The remainder involves related theoretical training, usually obtained at a college of applied arts and technology or another approved training delivery agency.

Training agreements between apprentices and their training sponsor or employer are prepared by training consultants at the Ministry of Training, Colleges and Universities. In accordance with legislation, each training agreement is an individualized contract or training plan between a person who wants to learn a skilled trade and a training sponsor or an employer.

Apprentices and training sponsors or employers benefit from apprenticeship training. Apprentices learn to become qualified tradespeople or "journeypersons", while training sponsors or employers gain highly skilled employees with up-to-date knowledge and work techniques. Jobs in skilled trades provide challenging work and good careers.

How long does an apprenticeship last?

Most apprenticeships take two to five years to complete, depending on the trade. At the time of registration, prior education and related work experience are considered, where appropriate, to potentially reduce the length of the program. Flexible in-school training options are generally available to meet the specific needs of apprentices and their training sponsor or employer.

How does a person register for an apprenticeship?

When a person who wants to be an apprentice has found a training sponsor or employer willing to engage in apprenticeship training, either the person or the training sponsor or employer should contact the local apprenticeship office. A training consultant will arrange a meeting at the workplace to assess the ability of the training sponsor or employer to train and assess the person, prepare the training agreement or contract, and initiate the training.

Can a student start an apprenticeship while attending high school?

Yes. The Ontario Youth Apprenticeship Program offers students who have completed Grade 10 an opportunity to become registered apprentices while finishing high school. Eligible students should contact their guidance counsellor, technical director, or local apprenticeship office for more information.

What is "Interprovincial" designation?

The Interprovincial Standards Program or Red Seal Program was established to provide greater labour mobility for skilled workers who wish to move from one part of Canada to another. It encourages the standardization of provincial/territorial training and certification programs. A Red Seal certificate is recognized by provinces participating in the program. Many Ontario trades are part of the Red Seal Program. In these trades, people who are eligible to challenge the trade examinations may, if successful, receive a Certificate of Qualification with a distinctive red seal that allows them to work in other provinces and territories.

APPRENTICESHIP OFFICES

Central District

Toronto	(416) 326-5800
Pickering	(905) 837-7721
Mississauga	(905) 279-7333
Barrie	(705) 737-1431

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Hamilton	(905) 521-7764
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Kenora	(807) 468-2879

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